



Rodgers Builders

Time to M arket:

How to Build 30,000 SF of R&D space in 180 days... and live to tell about it...

Jeffrey Schantz AIA Lord Aeck & Sargent

Geoff Grisham, VP Finance AlphaVax Human Vaccines

Skip Hildebrand Rodgers Builders





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Project Goals

- New State of the Art R&D Lab for virology research
- Identify, procure and outfit new lab before existing lease expires in M ay 2001
- Preserve capital
- C reate a safe, pleasant environment for Life Sciences Research



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Resources and Opportunities

- RDU/RTP location
- A ccess to experienced Contractors
- Experienced management team
- A cceptable risk profile
- Flexible decision makers
- A ccess to capital



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C hallenges

- Find an existing building with a competitive lease rate
- N eed for B L 3 containment lab
- Lower acquisition and fit up costs
- M eet the schedule
- Define the facility requirements
- Lower operating and energy costs



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Project Team

PROJECT MANAGEMENT

GEOFF GRISHAM
ALPHAVAX
Owners Representative

LARRY LORD AIA LORD AECK SARGENT Principal in Charge

JEFFREY SCHANTZ, A IA LORD AECK SARGENT Principal Architect

SKIP HILDEBRAND AIA RODGERS BUILDERS Construction Manager

COST ESTIMATING RODGERS BUILDERS

MANAGEMENT

LABORATORY PLANNING

JEFFREY SCHANTZ AIA LORD AECK SARGENT Laboratory Architect

CLARK RICHARDSON & BISKUP

LABORATORY CASEWORK
NYCOM, INC./FISHER HAMILTON

ARCHITECTURE & DESIGN

BEN ELLIOT, AIA
LORD AECK SARGENT
Project Architect

INTERIOR DESIGN

MEGAN PARHAM LORD AECK SARGENT Interior Design

DESIGN

M /E/P ENGINEERING

NEWCOMB & BOYD Chris Rousseau, PE Andrew Dymek, PE

HVAC DESIGN/BUILD

NEWCOMB & COMPANY
Raleigh, NC

ELECTRICAL DESIGN/BUILD

STARR ELECTRIC Raliegh, NC

PLUMBING DESIGN/BUILD

RIANGLE PLUMBING Cary, NC

ENGINEERING



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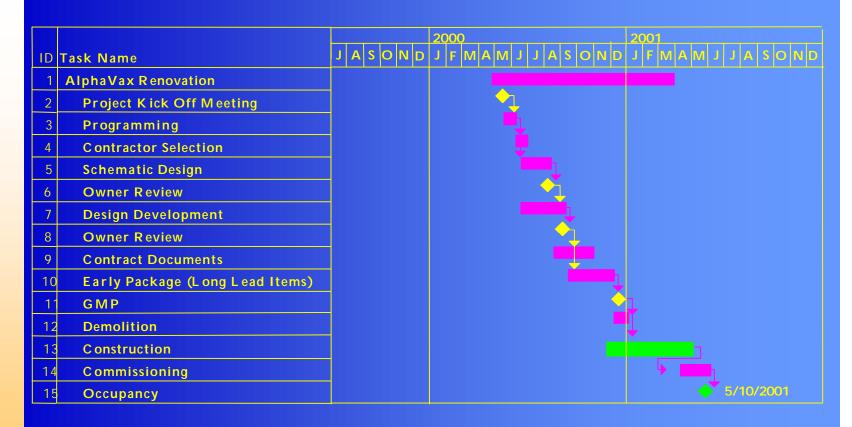
Schedule A pproach

- No Excuses!
- Early Packages for Permits, Demolition
- Close Cooperation with Building Inspections
- Early Order for Lead Time Items:
 - A ir Handler
 - Chiller
 - Boilers
 - Emergency Generators
- Begin Commissioning before project close out



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Project Schedule





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Finance A pproach

Construction Loan: ¼ point below

Prime

Furnishings: Leased

Equipment: Leased

Negotiation: Direct with Owner

Fees: Owner Cost



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Lease Terms

Term: 5 years

Renewal: 3 5-year extensions

Rental Rate: \$11/SF Base Rate Triple

Net

• Escalation: 3%

Security: \$50,000



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Design Approach

- Total project delivery
- Extensive Programming effort
- Integrated Design Team
- Lab Planning integrated
- Interior Design integrated
- Construction M anager on board for Design



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Engineering Approach

- M /E/P systems performance specified by Engineering Team
- Design/Build by sub-contracting team
- Inspection by Engineering Team
- Test and Balance by sub-contractor
- Early start to Commissioning process
- Final close out by Commissioning Agent
- Hire on Facilities M anager during close out





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Energy Approach

- Provide the most energy efficient systems available to within schedule constraints
- Lowest First Cost/Operating cost
 - Constant Volume System
 - Two Cycle/Night Set Back
 - A ir Cooled Electric Chiller
 - G as B oiler
 - M inimize Fume Hoods
 - Use Type II/A BioSafety Cabinets where practical
- M inimal Site Impact



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Construction Delivery Options

- Design-Bid-Build
- CM Advisor (Modified CM)
- Professional Procurement
- CM Bid
- CM Negotiated GMP
- CM Negotiated, Cost Plus with GMP (AIA 111)
- Design Build



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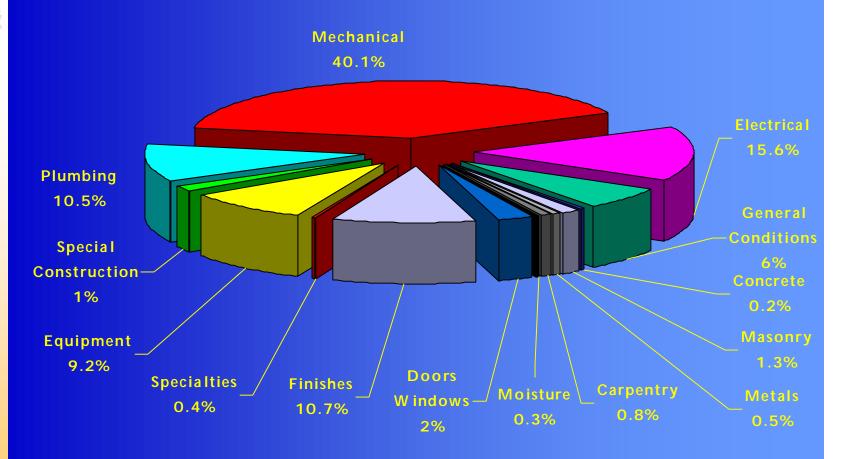
Construction A pproach

- Construction Manager
- N egotiated Contract, Cost plus Fees
 - General Conditions
 - Construction Management
 - Pre-design/Estimating
- Guaranteed Maximum Price
- Pre-Qualification of all Sub-Contractors
- Open Book pricing
- AIA 111 with AIA 201 General Conditions



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Construction Costs

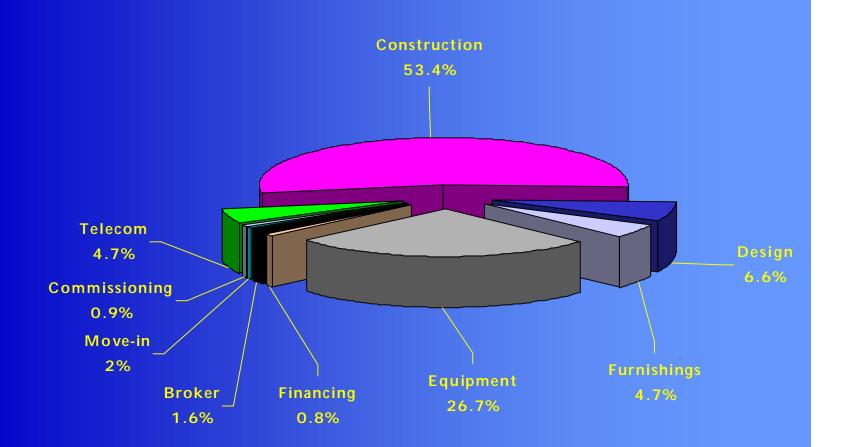


Total Construction Cost: \$3,400,117



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Project Costs



Total Project Cost: \$6,368,117



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ARCHITECTURE FOR SEIFNER









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ARCHITECTURE FOR SCIENCE









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Lessons Learned

- Only Professionals should order A utoclaves
- K eep an eye on U tility issues
- Select the best Sub-Contractors



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A & D